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Manuscripts—Ordinarily manuscripts should not exceed 3,000 words (less than 15 typed double-spaced pages). The original manuscript and two copies should be submitted, typed double-space throughout. If photographic illustrations are desired, three sets of clear, unmounted black and white glossy prints should be supplied. For line drawings, original artwork or glossy prints are acceptable. Tables should be typed on separate sheets of paper.

References—References should conform to the following order: name of author, title of article, name of periodical, year of publication, month and volume with inclusive pages—i.e., Lee GS: The heart rhythm following therapy with digitalis—In theory and practice. Arch Int Med 1979 Mar; 44:554-562. They should be listed in the order in which they are cited in the text, numbered in sequence and punctuated as above.

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This listing of continuing education programs in California, Hawaii and Nevada is supplied by the Committee on Continuing Medical Education of the California Medical Association. All courses and meetings listed have been approved for Category I credit toward the CMA Certificate in Continuing Medical Education. To have accredited courses listed here, please send information at least two months in advance to Department of Continuing Medical Education, California Medical Association, 731 Market Street, San Francisco 94103; or phone (415) 777-2000, ext. 139. For a list of organizations approved for Category I credit toward the CMA Certificate in Continuing Medical Education or for more information on accreditation or certification, please write to the above address.

October 15-16—**Advanced Seminar in Urologic Surgery.** UCSF at Golden Gateway Holiday Inn, San Francisco. Friday-Saturday.

October 15-17—**Neurolinguistic Programming: Sex and Couples Therapy.** Institute of Sexual Behavior and Institute for Medical Education and Research at Village Inn, La Jolla. Friday-Sunday. 18 hrs. \$200. Contact: Inst. of Sexual Behavior, P.O. Box 9494, San Diego 92109. (714) 272-3126.

October 15-17—**Substance Abuse Prevention Through Effective Parenting.** Isla Vista Health Projects, Inc., and San Diego State Univ. Student Health Services at Village Inn, La Jolla. Friday-Sunday. \$150. Contact: Parenting, P.O. Box 9494, San Diego 92109. (714) 272-3126.

October 16—**Review Course for Gynecologic Pathology.** USC at Hilton, Pasadena. Saturday. 6 hrs. \$75.

October 16-17—**Thyroid Today—1982, A Clinical Update for the Practicing Physician, First Annual Symposium.** Cypress Foundation at Hyatt Del Monte, Monterey. Saturday-Sunday. 10 hrs. \$130. Contact: Cypress Fndn., Box 80308, Salinas 93912. (408) 455-1833.

October 16-17—**Medical Psychiatry.** UCSF. Saturday-Sunday. 12½ hrs. \$115 before October 1; \$135, thereafter. Contact: Aveleen Blumenstock, Cont. Ed., Langley Porter Institute, 401 Parnassus, Box 2D, San Francisco 94143. (415) 681-8080, ext. 554.

October 16-23—**4th International Seminar on Operative Arthroscopy.** UCLA at Maui. One week. 38 hrs. \$785 with labs; \$685, without.

October 17-19—**Dermatology for the Primary Care Physician.** UCD at Holiday Inn, Napa. Sunday-Tuesday. 12 hrs. \$180.

October 18-25—**Pulmonary Medicine 1982: Advances and American Board Review.** USC at Hilton, Pasadena. One week.

October 20—**New Concepts in Diabetes.** Hospital of the Good Samaritan at Hilton, Los Angeles. Wednesday. 7 hrs. Contact: Bonnie VanWaardenburg, Dept. of Ed., Hosp. of the Good Samaritan, 616 S. Witmer St., Los Angeles 90017. (213) 977-2345.

October 21-23—**California Society of Internal Medicine—Annual Meeting.** MGM Grand, Reno. Thursday-Saturday. Contact: CSIM, 703 Market St., Suite 1412, San Francisco 94103. (415) 362-1548.

October 21-24—**International Symposium on the Mitral Valve.** Scripps Clinic and Research Fndn. at Hotel del Coronado, Coronado. Thursday-Sunday. 23 hrs. \$350. Contact: Dianne Tisue, Dept. of Academic Affairs, Scripps Clinic and Research Fndn., 10666 N. Torrey Pines Rd., La Jolla 92037. (714) 455-9100.

October 22-24—**Advanced Cardiac Life Support Workshops.** Emergency Medical Associates, Inc., at Ralph K. Davies

Medical Center, San Francisco. Friday-Sunday. Contact: Ellie Gutman, EMA, 2310 Mason St., San Francisco 94133. (415) 956-5900.

October 22-24—**Practical Gastroenterology and Flexible Sigmoidoscopy for the Primary Care Physician.** UCSD at Vacation Village, San Diego. Friday-Sunday. 20 hrs. \$275. Contact: Howard D. Groveman, MD, UCSD School of Medicine (M-022), La Jolla 92093. (714) 452-4613.

October 22-26—**American Society of Anesthesiologists.** Hilton, Las Vegas. Friday-Tuesday. Contact: ASA, 515 Busse Highway, Park Ridge, IL 60068.

October 23—**Current Trends in Cardiovascular Therapy.** Cedars-Sinai Medical Center at Eisenhower Medical Center, Rancho Mirage. Saturday. 8 hrs. \$40. Contact: Kim Reynolds, Cont. Med. Ed., Rm. 2049, Cedars-Sinai Med. Ctr., 8700 Beverly Blvd., Los Angeles 90048. (213) 855-5547.

October 23-24—**Western Occupational Health Conference—1982.** Western Occupational Medical Assn. at Travelodge at the Wharf, San Francisco. Saturday-Sunday. 10 hrs. \$75, members; \$95, nonmembers. Contact: WOMA, 433 Palmer Ave., Aptos 95003. (408) 688-9667.

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KEY TO ABBREVIATIONS

- CMA: California Medical Association
Contact: Continuing Medical Education, California Medical Association, 731 Market Street, San Francisco 94103. (415) 777-2000.
- DREW: Charles R. Drew Postgraduate Medical School
Contact: Duane Dillman, PhD, Director, Office of Continuing Education, Charles R. Drew Postgraduate Medical School, 1621 East 120th Street, Los Angeles 90059. (213) 603-3091.
- LLU: Loma Linda University
Contact: Varner J. Johns, Jr., MD, Associate Dean for Continuing Medical Education, Loma Linda University School of Medicine, Loma Linda 92354. (714) 796-7311, ext. 2400.
- PMC: Pacific Medical Center
Contact: Continuing Education, Pacific Medical Center, P.O. Box 7999, San Francisco 94120. (415) 563-4321, ext. 2761.
- STAN: Stanford University
Contact: Edward Rubenstein, MD, Associate Dean for Postgraduate Education, Stanford University School of Medicine, 300 Pasteur Drive, Stanford 94305. (415) 497-5594.
- UCD: University of California, Davis
Contact: Ruth Feryok, Director, Office of Continuing Medical Education, University of California, Davis, School of Medicine, Davis 95616. (916) 752-0328.
- UCI: University of California, Irvine
Contact: E. R. Jennings, MD, Assistant Dean, University of California, Irvine, California College of Medicine, c/o UCI/CME Program, Memorial Hospital Medical Center 2801 Atlantic Ave., Long Beach 90801. (213) 595-3837.
- UCLA: University of California, Los Angeles
Contact: Martin D. Shickman, MD, Director, Continuing Education in Medicine and the Health Sciences, P.O. Box 24902, UCLA, Los Angeles 90024. (213) 825-7241.
- UCSD: University of California, San Diego
Contact: Office of Continuing Medical Education, University of California, San Diego, School of Medicine (M-017), La Jolla 92093. (714) 452-3708.
- UCSF: University of California, San Francisco
Contact: David S. Gullion, MD, Director, Extended Programs in Medical Education, School of Medicine, University of California, San Francisco 94143. (415) 666-4251.
- USC: University of Southern California
Contact: Phil R. Manning, MD, Associate Dean, Postgraduate Division, University of Southern California School of Medicine, 2025 Zonal Avenue, Los Angeles 90033. (213) 224-7051.

- October 23-25—**OB and GYN Endocrinology.** UCSF at Golden Gateway Holiday Inn, San Francisco. Saturday-Monday.
- October 23-30—**Pediatrics for the Practitioner.** Memorial Hospital Medical Center of Long Beach at Mauna Kea Beach Hotel, Kamuela. One week. 20 hrs. \$275. Contact: Asst. Dir., Ctr. for Health Ed., 2801 Atlantic Ave., Long Beach 90801. (213) 595-3811.
- October 24-25—**Meeting of International Strabismological Association and American Association of Pediatric Ophthalmology and Strabismus.** ISA, AAIPOS and PMC at Asilomar, Pacific Grove. Sunday-Monday. Contact: PMC.
- October 25-28—**7th Annual Family Practice Update.** LLU. Monday-Thursday. 29 hrs. \$225.
- October 25-29—**Topics in Emergency Medicine.** UCSF at Sheraton at Fisherman's Wharf, San Francisco. Monday-Friday. 35 hrs. \$350.
- October 27-28—**Vitrectomy.** PMC. Wednesday-Thursday.
- October 28-30—**Postgraduate Institute.** CMA at Doubletree Inn, Monterey. Thursday-Saturday. Contact: Charlotte Newhart, CMA.
- October 28-30—**2nd Bi-Annual Course in Lower Extremity Trauma: Treatment, Complications and Controversies.** Bone and Joint Disease Foundation at Vacation Village, San Diego. Thursday-Saturday. Contact: Lower Extremity Trauma, P.O. Box 9494, San Diego 92109. (714) 282-9316.
- October 28-31—**Obesity and Associated Conditions—32nd Annual Symposium.** American Society of Bariatric Physicians at MGM Grand, Las Vegas. Thursday-Sunday. 17 hrs. \$265, members; \$315, nonmembers. Contact: ASBP, 5200 S. Quebec, Suite 300, Englewood, CO 80111. (303) 779-4833.
- October 29—**Drug Therapy for Heart Disease in the 80's.** UCD at Sacramento Inn, Sacramento. Friday. 6 hrs. \$85.
- October 29-31—**Arrhythmias and Cardiac Ischemia: Diagnosis and Management.** International Medical Education Corp. at Sahara, Las Vegas. Friday-Sunday. 13 hrs. \$260. Contact: Stephen E. Mattingly, IMEC, 64 Inverness Dr. E., Englewood, CO 80112. (800) 525-8651.
- October 30—**Diagnosis and Treatment of Nasal Disorders.** UCSD. Saturday.
- October 30—**Manuel Levin Memorial Cancer Symposium.** Fresno Community Hospital. Saturday. Contact: Joanne Ellis, Fresno Community Hosp., P.O. Box 1232, Fresno 93715. (209) 442-6000, ext. 5696.
- October 30—**The Troubled Child: Four Practical Approaches.** Del Amo Hospital and American Academy of Pediatrics at Del Amo Hospital, Torrance. Saturday. 4 hrs. \$25. Contact: Del Amo Hosp. Outreach, 3270 W. Lomita Blvd., Torrance 90505. (213) 872-2482.
- October 30-November 5—**American Academy of Ophthalmology.** Moscone Center, San Francisco. One week. Contact: AAO, P.O. Box 7424, San Francisco 94115. (415) 921-4700.
- November 1-3—**Practical Management of Bronchial Asthma—Symposium II.** Scripps Clinic and Research Fndn. at Rancho Bernardo Inn, San Diego. Monday-Wednesday. 19 hrs. \$250. Contact: Dianne Tisue, Dept. of Academic Affairs, Scripps Clinic and Research Fndn., 10666 N. Torrey Pines Rd., La Jolla 92037.
- November 1-4—**Interstate Postgraduate Medical Association—Scientific Assembly.** Town and Country, San Diego. Monday-Thursday. 24 hrs. Contact: H. B. Maroney, Exec. Dir., IPMA, P.O. Box 1109, Madison, WI 53701. (608) 257-6781.
- November 1-5—**Intensive Care.** STAN. Monday-Friday. 25 hrs. \$365.
- November 4-5—**Centennial Sterling Bunnell Memorial Lecture-ship Program—Surgery of the Hand.** UCSF at Letterman Army Institute of Research, San Francisco. Thursday-Friday. 15 hrs. \$250.

- November 5—**Comprehensive Care of Genitourinary Trauma.** Orange County Urological Soc. and Western Section, American Urological Assn., at Registry Hotel, Irvine. Friday. 8 hrs. Contact: Kathy DeSantis, Western Section, AUA, 21510 S. Main St., Carson 90745. (213) 549-3470.
- November 5-6—**ECG Interpretation and Arrhythmia Management.** International Medical Education Corp. at Islandia Hyatt, San Diego. Friday-Saturday. 13 hrs. \$260. Contact: Stephen E. Mattingly, IMEC, 64 Inverness Dr. E., Englewood, CO 80112. (800) 525-8651.
- November 6—**The Sexually Active Adolescent—Implications for the Health Care Professional.** UCLA. Saturday. 7 hrs. \$90.
- November 6—**Four by George Vaillant: Natural History of Male Alcoholism; Hierarchy of Ego Mechanisms; Work as a Predictor of Mental Health; Case Conference.** Del Amo Hospital, Torrance. Saturday. 7 hrs. \$50. Contact: Del Amo Hosp. Outreach, 3270 W. Lomita Blvd., Torrance 90505. (213) 872-2482.
- November 6-7—**Blood Gas and Acid-Base Disorders.** STAN. Saturday-Sunday. 11 hrs. \$250.
- November 6-7—**Invasive Methods and Hemodynamic Monitoring.** STAN. Saturday-Sunday. 15 hrs. \$325.
- November 6-7—**Trauma.** STAN. Saturday-Sunday. 11 hrs. \$250.
- November 6-8—**Nutrition.** PMC and Institute for the Study of Human Knowledge at San Francisco. Saturday-Monday. Contact: PMC.
- November 7-12—**Diagnostic Radiology Seminars.** UCSF at Hyatt Regency, Maui. Sunday-Friday. \$350.
- November 7-13—**Allergy and Immune Diseases.** Symposium Maui, Inc., and Hawaii Chap., AAFP, at Lahaina Resort, Kaanapali, Maui. One week. 22 hrs. Contact: Joe Harrison, MD, Symposium Maui, Inc., P.O. Box 10185, Lahaina, Maui, HI 96761.
- November 10—**Pediatric Emergencies.** LLU. Wednesday. 4 hrs.
- November 10—**Nutrition Symposium.** N. T. Enloe Memorial Hospital, Chico. Wednesday. 6 hrs. \$50. Contact: Cont. Ed. Office, N. T. Enloe Mem. Hosp., W. 5th Ave. and The Esplanade, Chico 95926. (916) 891-7375.
- November 10-14—**Sports Medicine Now.** UCD at Hyatt Del Monte, Monterey. Wednesday-Sunday. 24 hrs. \$275.
- November 11-13—**Critical Decisions in Vascular Surgery.** Cedars-Sinai Medical Center at Century Plaza, Los Angeles. Thursday-Saturday. 12 hrs. \$235. Contact: Kim Reynolds, Cont. Med. Ed., Rm. 2049, Cedars-Sinai Med. Ctr., 8700 Beverly Blvd., Los Angeles 90048. (213) 855-5547.
- November 11-13—**First National Conference on Infantile Apnea and Home Monitoring of High Risk Infants.** Eisenhower Medical Center and Medical Center of Tarzana at Eisenhower Med. Ctr., Rancho Mirage. Thursday-Saturday. Contact: Annenberg Center for Health Sciences, Eisenhower Med. Ctr., 39000 Bob Hope Dr., Rancho Mirage 92270. (714) 340-3911, ext. 1661.
- November 11-14—**Controversial Areas in Surgery of the Head and Neck.** Institute for Medical Education and Research at Hilton Beach and Tennis Resort, San Diego. 20 hrs. \$250. Contact: IMER, P.O. Box 9494, San Diego 92109. (714) 272-3126.
- November 11-14—**Allergy/Immunology: Practical Aspects Today and Into the 21st Century.** American Assn. for Clinical Immunology and Allergy at Marriott, Anaheim. Thursday-Sunday. 30 hrs. \$250. Contact: Howard S. Silber, Exec. Dir., AACIA, P.O. Box 912-DTS Omaha NE 68101. (402) 551-0801.
- November 12-14—**28th Annual Group Therapy Symposium.** UCSF at Holiday Inn, Berkeley. Friday-Sunday. 18 hrs. \$125. Contact: Avelen Blumenstock, Asst. Dir., Cont. Ed., Langley Porter Institute, 401 Parnassus Ave., Box 2D, San Francisco 94143. (415) 681-8080, ext. 554.

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- November 13—**CT of the Spine.** Cedars-Sinai Medical Center at Century Plaza, Los Angeles. Saturday. 6 hrs. \$95. Contact: Kim Reynolds, Cont. Med. Ed., Rm. 2049, Cedars-Sinai Med. Ctr., 8700 Beverly Blvd., Los Angeles 90048. (213) 855-5547.
- November 14—**The Lung in 1982.** Granada Hills Community Hospital and UCLA at Sheraton-Universal, North Hollywood. Sunday. Contact: Germaine Trasher, Granada Hills Community Hosp., 10445 Balboa Blvd., Granada Hills 91344. (213) 360-1021.
- November 14-17—**California Academy of Family Physicians—Annual Meeting.** Hotel del Coronado Coronado. Sunday-Wednesday. Contact: CAFFP, Suite 820, The Hearst Bldg., 5 Third St., San Francisco 94103. (415) 541-0762.
- November 15-19—**An International Perspective on Substance Abuse: The Problem, Its Treatment, and Medical Education.** Assn. for Medical Education and Research in Substance Abuse; World Health Org.; State Univ. of NY Downstate Med. Ctr.; et al at Claremont Hotel, Oakland. Monday-Friday. Contact: Dr. Charles Buchwald, Downstate Med. Ctr., 450 Clarkson Ave.-Box 129, Brooklyn, NY 11203. (212) 270-3150.
- November 17—**Controversies in the Management of Early Breast Cancer.** Hospital of the Good Samaritan at Biltmore Hotel, Los Angeles. Wednesday. 6 hrs. Contact: Bonnie VanWaardenburg, Dept. of Ed., 616 S. Witmer St., Los Angeles 90017. (213) 977-2345.
- November 18-21—**Modern Concepts in Operative Neurosurgery, Critical Care and Rehabilitation.** Comprehensive Central Nervous System Injury Fndn. and Institute for Medical Education and Research at Hilton on Mission Bay, San Diego. Friday-Sunday. 20 hrs. \$250. Contact: CNS Injury Fndn., P.O. Box 9494, San Diego 92109. (714) 272-3126.
- November 19-21—**Pain Management.** UCLA. Friday-Sunday.
- November 19-22—**Pediatric Update.** Calif. Chapters, American Academy of Pediatrics, at Hilton, Las Vegas. Friday-Monday. 14 hrs. \$195, members; \$220, nonmembers. Contact: Eve Black, P.O. Box 2134, Inglewood 90305. (213) 757-1198.
- November 20-27—**3 for 1: Proctology; Psychiatry; Principles.** Univ. of Washington School of Medicine at Sheraton Wai-koloa, Kona, Hawaii. One week. Contact: U/W Sch. of Med., Div. of CME, SC-50, Seattle 98195. (206) 543-1050.
- November 21-24—**Pacific Coast College Health Association—Annual Meeting.** PCCHA and San Diego State Univ., Student Health Services, at Hyatt Islandia, San Diego. Sunday-Wednesday. 14 hrs. \$40, members; \$50, nonmembers. Contact: David Bearman, MD, Student Health Services, San Diego State Univ., San Diego 92182. (714) 265-5281.
- November 28-30—**Kids Have Bones, Too.** UCD at Hyatt Del Monte, Monterey. Sunday-Tuesday. 11 hrs.
- November 28-December 10—**Temporal Bone Surgical Dissection Course.** House Ear Institute, Los Angeles. 2 weeks. 100 hrs. \$1,500. Contact: Antonio de la Cruz, MD, House Ear Inst., 256 S. Lake St., Los Angeles 90057.
- December 2-4—**International Symposium on Medical Virology.** UCI at Disneyland Hotel, Anaheim. Thursday-Saturday. 23 hrs. Contact: Luis M. de la Maza, MD, PhD, Dept. of Pathology, UCI Med. Ctr., Orange 92668. (714) 634-6868.
- December 3—**Stroke! An Integrated Approach.** Daniel Freeman Memorial Hospital, Inglewood. Friday. 7 hrs. \$90. Contact: Donad A. Dennis, PhD, Dir. of Med. Ed., Daniel Freeman Mem. Hosp., 333 N. Prairie, Inglewood 90301. (213) 674-7050, ext. 3427.
- December 3-4—**The Anterior Cruciate Ligament "State of the Art."** Memorial Hospital Medical Center-UCI Center for Health Education, Long Beach. Friday-Saturday. 16 hrs. Contact: Asst. Dir., Ctr. for Health Ed., 2801 Atlantic Ave., Long Beach 90801. (213) 595-3811.
- December 3-4—**Rheumatology.** UCD at Woodlake Inn, Sacramento. Friday-Saturday. 15 hrs.

- December 3-5—**Clinical Management of Coronary Disease and Dual-Mode Exercise Testing.** International Medical Education Corp. at MGM Grand, Las Vegas. Friday-Sunday. 13 hrs. \$260. Contact: Stephen E. Mattingly, IMEC, 64 Inverness Dr., Englewood, CO 80112. (800) 525-8651.
- December 3-5—**Perioperative Cardiac Dysfunction.** Cardiothoracic Research and Education Fndn. at Hilton Beach Resort, San Diego. Friday-Sunday. 16 hrs. \$250. Contact: CREF, P.O. Box 33185, San Diego 92103. (714) 272-3126.
- December 4—**Annual Winter Meeting, Emergency Pediatrics, Part II.** Calif. Chapters, American Academy of Pediatrics, at Holiday Inn on Union Square, San Francisco. Saturday. Contact: Beverly Busher, No. Calif. Chap., AAP, 422 Alexander Ave., Larkspur 94939. (415) 924-9613.
- December 4—**Photocoagulation Workshop.** Jules Stein Eye Institute, Los Angeles. Saturday. 8 hrs. \$250. Contact: Lu Hendricks, JSEI, UCLA Sch. of Med., Ctr. for Health Ed., Los Angeles 90024. (213) 825-4617.
- December 4—**Total Parenteral Nutrition.** UCLA. Saturday.
- December 4-5—**Emerging Frontiers in Medicine: An Update for the Practicing Physician.** The Cypress Foundation and UCSF at Hyatt Del Monte, Monterey. Saturday-Sunday. 10 hrs. \$150. Contact: Cypress Fndn., Box 80308, Salinas 93912. (408) 455-1833.
- December 4-5—**MKSAP VI Review Course.** American College of Physicians and UCLA at UCLA. Saturday-Sunday. 12 hrs. \$80. Contact: UCLA.
- December 5-7—**Leucocyte Conference.** USC at Asilomar, Pacific Grove. Sunday-Tuesday.
- December 8—**18th Annual Northern California Cancer Conference.** N. T. Enloe Memorial Hospital, Chico. Wednesday. 6 hrs. \$50. Contact: Cont. Ed. Office, N. T. Enloe Mem. Hosp., W. 5th Ave. and The Esplanade, Chico 95926. (916) 891-7375.
- December 8—**Chronic Diarrhea—Its Diagnosis and Treatment.** LLU. Wednesday. 4 hrs.
- December 9-10—**MKSAP Review Course.** American College of Physicians and UCD at Hyatt Union Square, San Francisco. Thursday-Friday. Contact: UCD.
- December 9-12—**American Academy of Psychoanalysis—26th Winter Meeting.** Hotel del Coronado, Coronado. Thursday-Sunday. 20 hrs. Contact: Vivian Mendelsohn, Admin. Dir., AAP, 30 E. 40th St., Suite 608, New York 10016. (212) 679-4105.
- December 10-12—**Current Issues in Perinatal Medicine.** Memorial Hospital Medical Center-UCI Center for Health Education at Marriott's Rancho Las Palmas Resort, Rancho Mirage. Friday-Sunday. 15 hrs. Contact: Asst. Dir., Ctr. for Health Ed., 2801 Atlantic Ave., Long Beach 90801. (213) 595-3811.
- December 13-17—**Postgraduate Institute for Emergency Room Physicians—Symposium II.** UCSD at Hilton, San Diego. Monday-Friday. 33 hrs. \$425.
- December 30-31—**Second Annual Potpourri of Medicine Seminar.** Huntington Memorial Hospital, Pasadena. Thursday-Friday. Contact: Arlene M. Ellis, Med. Staff Affairs, Huntington Mem. Hosp., 100 Congress St., Pasadena 91105.
- January 6-9—**Anesthesia Update—1983.** UCSD at Vacation Village, San Diego. Thursday-Sunday. 20 hrs. \$250. Contact: Jordan Katz, MD, Dept. of Anesthesia (M-004), UCSD, La Jolla 92093. (714) 453-7500, ext. 3292.
- January 9-13—**Mental Research Institute—Winter Seminar.** Palo Alto. Sunday-Thursday. 27 hrs. \$270. Contact: MRI, 555 Middlefield Rd., Palo Alto 94301. (415) 321-3055.
- January 10-14—**7th Annual Hawaii Echocardiography Conference.** Honolulu Medical Group at Westin Wailea Hotel, Maui. Monday-Friday. 30 hrs. \$495. Contact: Yvonne Brewer, Honolulu Med. Grp., Research and Education Fndn., 550 S. Beretania St., Honolulu 96813. (808) 537-2211.

ing routine immunization. Rarely, orally given live polio vaccine (OPV) has caused acute poliomyelitis. This disorder occurs in both vaccine recipients and their contacts. The risk is estimated at 0.06 cases per million doses for recipients of OPV and 0.14 per million for contacts. There is an increased risk of vaccine-induced poliomyelitis in adults (older than 18 years) receiving OPV. (There is no risk of poliomyelitis developing from inactivated polio virus vaccine.) The interval between immunization and onset is one to four weeks and clinically it is essentially the same as naturally occurring poliomyelitis.

Encephalopathy, sometimes with permanent neurologic sequelae, is a rare complication of routine pertussis immunization. Estimate of the rate of serious central nervous system complications occurring with residual deficit is about 1 per

510,000 vaccinations, though the incidence of transient convulsions or shock may be as low as 1 per 3,100. There is no evidence that a preexisting neurologic deficit is a contraindication to pertussis immunization unless, of course, the deficit was due to a previous pertussis immunization. Neurologic reactions to pertussis vaccine occur soon after vaccination, often within 1 to 48 hours.

LAWRENCE STEINMAN, MD

REFERENCES

- Cody CL, Baraff LJ, Cherry JD, et al: Nature and rates of adverse reactions associated with DTP and DT immunizations in infants and children. *Pediatrics* 1981 Nov; 68(5):650-660
- Fulginiti VA: Active and passive immunization in the prevention of infectious diseases, chap 29. In Stiehm ER, Fulginiti VA (Eds): *Immunologic Disorders in Infants and Children—2nd Ed.* Philadelphia, WB Saunders, 1980, p 671
- Kilroy AW, Schaffner W, Fleet WF Jr, et al: Two syndromes following rubella immunization—Clinical observations and epidemiological studies. *JAMA* 1970 Dec 28; 214:2287-2292
- Schonberger LB, Bregman DJ, Sullivan-Bolyal JZ, et al: Guillain-Barre syndrome following vaccination in the National Influenza Immunization Program, United States, 1976-77. *Am J Epidemiol* 1979 Aug; 110(2):105-123

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